

# Computations

Name Chloe Beard

Class 5/6A Date \_\_\_\_\_

## Progression Points

- 3.25 Appropriate selection and use of mental and written algorithms to add and subtract, multiply and divide (by single digits) natural numbers.
- 3.5 Addition, subtraction and multiplication of decimals to one decimal place using approximations such as whole number estimates and technology to confirm accuracy.
- 3.75 Multiplication by increasing and decreasing by a factor of two; for example  $24 \times 16 = 48 \times 8$ . Recognition that multiplication can either enlarge or reduce the magnitude of a number. Use the inverse relationship between multiplication and division.
- 4.0 Add, subtract and multiply and divide whole numbers and decimals in problem solving situations.
- 4.0+ Solve unusual problems involving a number of steps.

3.25

1. Solve these.

a $\begin{array}{r} 564 \\ + 346 \\ \hline 910 \end{array}$	b $\begin{array}{r} 5746 \\ + 3594 \\ \hline 9340 \end{array}$	c $\begin{array}{r} 36975 \\ + 85432 \\ \hline 122407 \end{array}$
d $\begin{array}{r} 694 \\ - 537 \\ \hline 157 \end{array}$	e $\begin{array}{r} 5000 \\ - 213 \\ \hline 4787 \end{array}$	f $\begin{array}{r} 5790 \\ - 369 \\ \hline 5421 \end{array}$
g $\begin{array}{r} 256 \\ \times 4 \\ \hline 1024 \end{array}$	h $\begin{array}{r} 186 \\ \times 50 \\ \hline 000 \\ 9300 \\ \hline 9300 \end{array}$	i $\begin{array}{r} 523 \\ \times 53 \\ \hline 1569 \\ 26550 \\ \hline 27719 \end{array}$
j $\begin{array}{r} 213 \\ 4 \overline{)852} \\ \hline \end{array}$	k $\begin{array}{r} 19571 \\ 5 \overline{)976} \\ \hline \end{array}$	l $\begin{array}{r} 52474 \\ 7 \overline{)3672} \\ \hline \end{array}$

3.5

a $\begin{array}{r} 36.7 \\ + 23.5 \\ \hline 60.2 \end{array}$	b $\begin{array}{r} 364.7 \\ + 248.7 \\ \hline 613.4 \end{array}$	c $\begin{array}{r} 3574.2 \\ + 346.6 \\ \hline 3933.7 \end{array}$
d $\begin{array}{r} 84.8 \\ - 26.3 \\ \hline 58.5 \end{array}$	e $\begin{array}{r} 367.4 \\ - 108.8 \\ \hline 258.6 \end{array}$	f $\begin{array}{r} 3579.4 \\ - 2036.8 \\ \hline 1542.6 \end{array}$
g $\begin{array}{r} 2.7 \\ \times 5 \\ \hline 13.5 \end{array}$	h $\begin{array}{r} 35.9 \\ \times 8 \\ \hline 287.2 \end{array}$	i $\begin{array}{r} 185.7 \\ \times 6 \\ \hline 1114.2 \end{array}$

**4.0÷** Solve unusual problems involving a number of steps.



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4.0+

9 Write the numbers that are represented below.

	Problem	Answer
a	$(4 \times 10^4) + (3 \times 10^3) + (5 \times 10^2) + (6 \times 10) + (9 \times 1) =$	43569 ✓
b	$(4 \times 10) + (7 \times 1) + (6 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) = ?$	* I don't know how to work this out!
c	$10^5 + 4^4 =$	140,000

- 10
- Jack's truck and Wally's truck have stopped at a service station in the desert for food, fuel and sleep.
  - At 6 a.m. in the morning Jack's truck leaves the service station and drives along a straight highway at an average speed of 80 km/h.
  - Wally's truck leaves one hour later at 7 a.m. and drives the same highway at an average speed of 100 km/h.



At what time in the day do the two trucks meet if neither of them stop?

Time = 8.20 ?

- 11 Janice is carpeting her combined lounge and dining room at a cost of \$77 per m<sup>2</sup> for carpet and \$36 per m<sup>2</sup> for laying the carpet.

Use the scale and the diagram to calculate how much it will cost her.

Cost = \$ 945

Scale 1 cm = 1 m

